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OPC Offshore Waters Forecast Zone Change Proposal

Updated 12 August 2013

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1. Introduction

The Ocean Prediction Center (OPC) of the National Centers for Environmental Prediction (NCEP) produces the offshore waters forecasts for both the Atlantic Ocean (OFFNT1, OFFNT2) and the Pacific Ocean (OFFPZ5, OFFPZ6). Currently, we provide forecasts for 8 zones in the Atlantic and 5 zones in the Pacific ([Figure 1](#) and [Figure 2](#)). User feedback over the years has focused on the fact that the forecast zones are too large to provide detailed forecasts for their needs and also that the forecast zones are not aligned with the various user areas of responsibilities or key bathymetric features. The proposed forecast zones address many of our users' concerns and are designed to meet their needs for clear, concise forecasts that are aligned with the user's areas of responsibility.

The date of the proposed change is April 1, 2014.

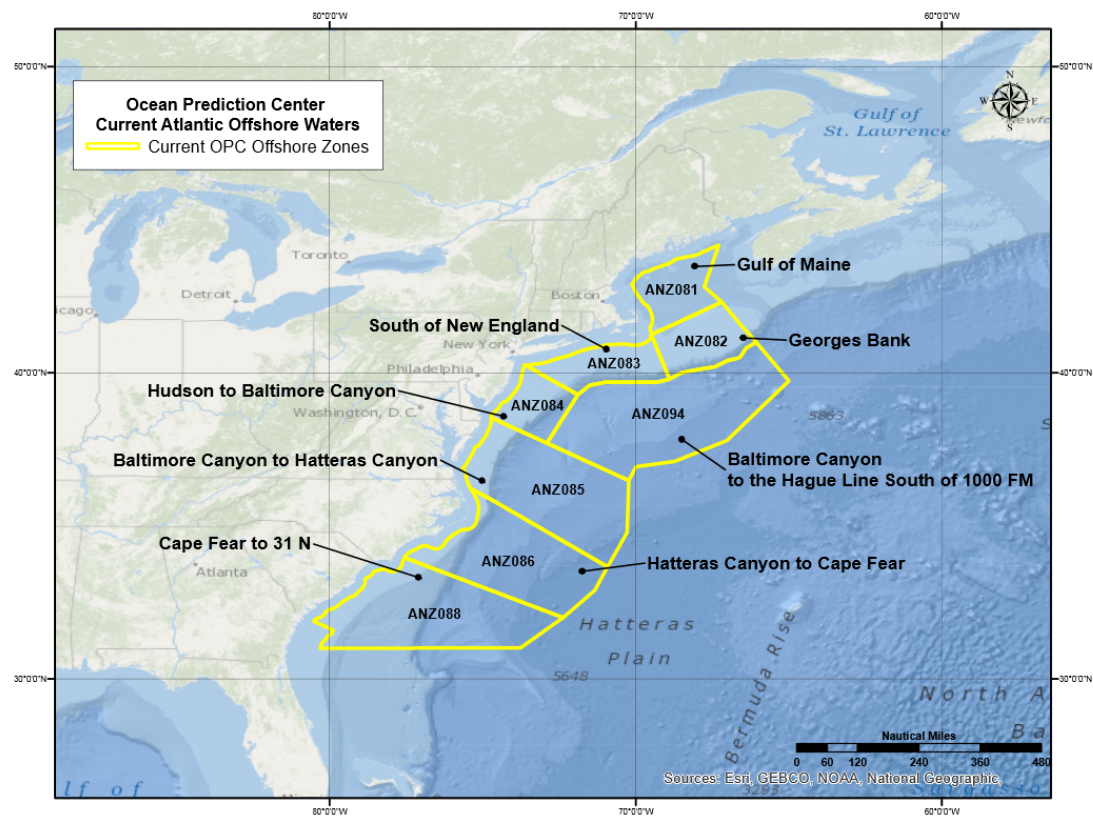


Figure 1. Existing Atlantic offshore waters zone configuration. Current configuration consists of eight (8) zones for the Atlantic offshore waters.

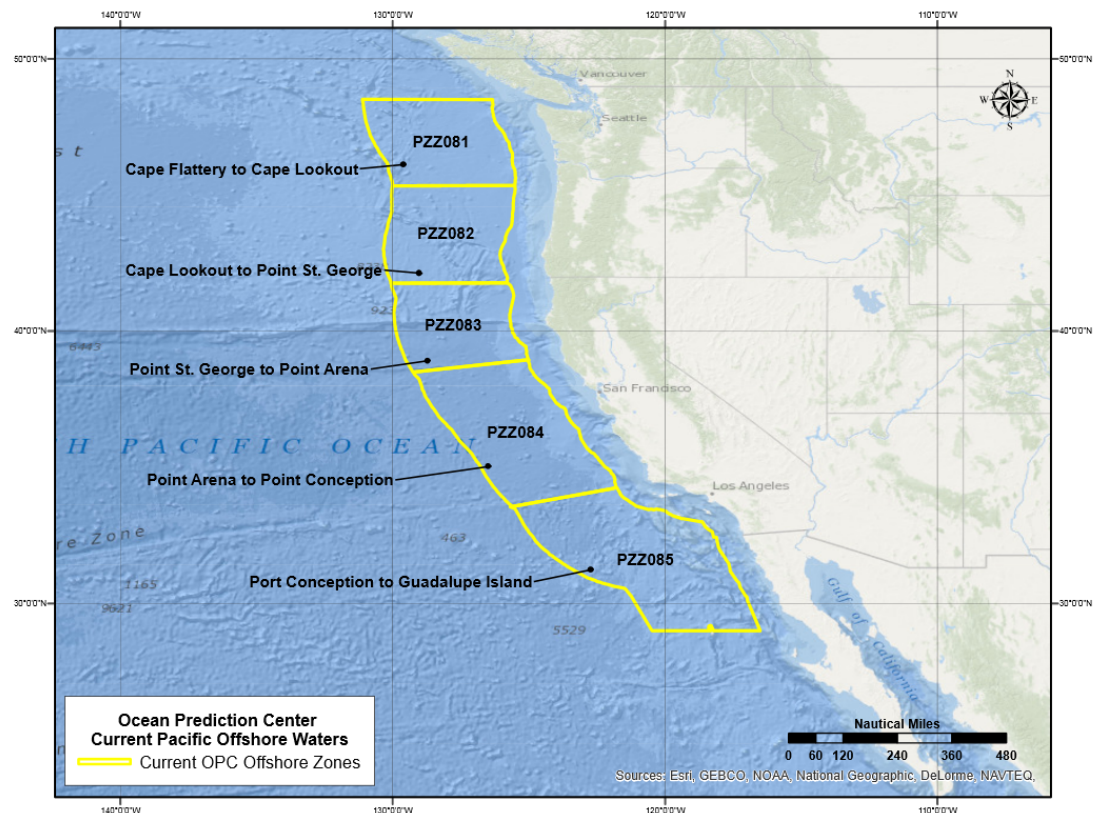


Figure 2. Existing Pacific offshore waters zone configuration. Current configuration consists of five (5) zones for the Pacific offshore waters.

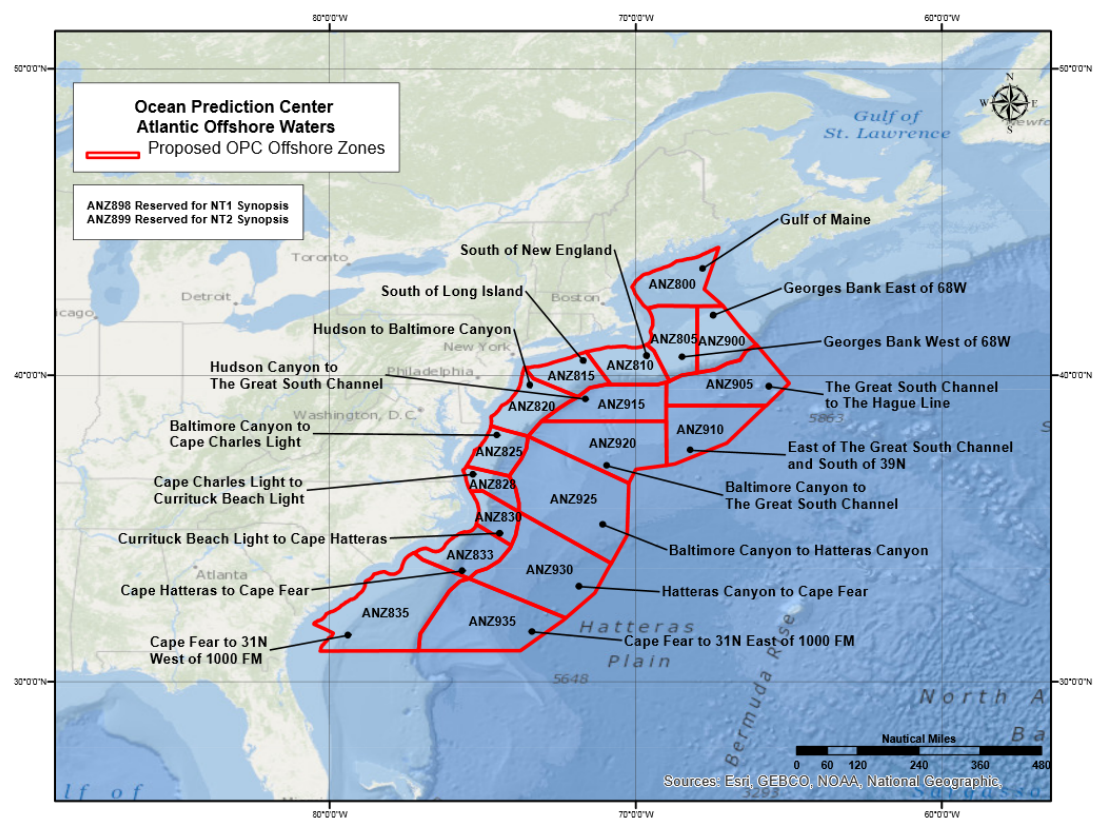


Figure 3. Proposed OPC Atlantic offshore waters zone configuration. Eighteen zones (18) cover the OPC Atlantic offshore waters.

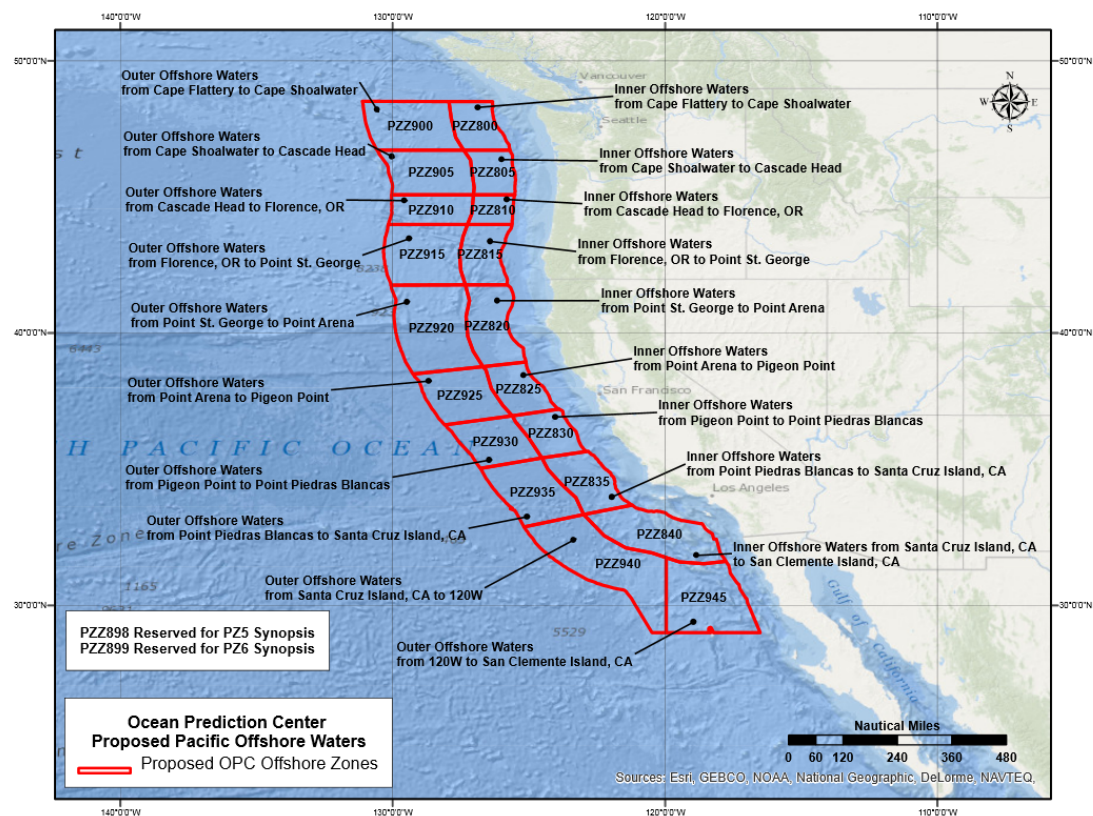


Figure 4. Proposed OPC Pacific offshore waters zone configuration. Nineteen zones (19) cover the OPC Pacific offshore waters.

2. The development of gridded marine forecasts and smaller marine zones

On May 1, 2013 OPC started using the Graphical Forecast Editor (GFE) to help produce offshore marine forecasts based on a gridded database. The gridded database is produced using the Advanced Weather Interactive Processing System's (AWIPS II) GFE. The gridded database consists of numerical weather prediction (NWP) model fields from one or several forecast models that are massaged by the forecasters, taking into account forecaster expertise. The forecasters can blend models or select from a single preferred model to populate the fields. They can also edit the grid directly based on their experience with model performance. The forecaster edits the gridded fields to provide a value added gridded marine database on a 5 km horizontal resolution. Winds, wind gusts, hazards and significant wave height grids are produced at a 3 hour time step through the 5 day period of the forecast. The utility of the gridded marine database lies in the capability to derive products from this database through the use of text formatters, including redesigned NAVTEX and high-frequency (HF) voice-broadcasts (VOBRA). Additional details on these products will be addressed in the [Dissemination and Operational Backup section](#). The gridded data is also composited from multiple offices and hosted on a website at <http://preview.weather.gov/graphical/> with the gridded data becoming an increasingly important product since it gives a detailed forecast that goes beyond what can be contained in a text product.

The text formatters in AWIPS GFE allow for the creation of much smaller zones which provide detailed forecasts for each zone, thus eliminating excessive wording necessary to describe conditions in larger zones.

3. Current Zone numbers for the Offshore Waters Zones

Figure 1 and Figure 2 depict the current offshore waters zone configuration for OPC for the Atlantic (OFFNT1, OFFNT2) and the Pacific (OFFPZ5, OFFPZ6) offshore waters area of responsibility. The current Universal Geographical Code (UGC) zone numbers and geographical descriptions for the OPC offshore waters are listed below.

Atlantic Ocean- NT1 waters

ANZ080 - Synopsis for New England Waters.

ANZ081 - Gulf of Maine to the Hague Line. ANZ081

ANZ082 - Georges Bank from the Northeast Channel to the Great South Channel including the waters east of Cape Cod to the Hague Line.

ANZ083 - South of New England from the Great South Channel to Hudson Canyon including the waters south of Martha's Vineyard and Nantucket Island out to 1000 fathoms.

Atlantic Ocean- NT2 waters

ANZ089 - Synopsis for Mid Atlantic Waters.

ANZ084 - Hudson to Baltimore Canyon.

ANZ085 - Baltimore Canyon to Hatteras Canyon out to 36N 70W to 34N 71W.

ANZ086 - Hatteras Canyon to Cape Fear out to 34N 71W to 32N 73W.

ANZ088 - Cape Fear to 31N out to 32N 73W to 31N 74W.

ANZ094 - Baltimore Canyon to the Hague Line South of 1000 Fathoms

Pacific Ocean- PZ5 waters

PZZ080 - Synopsis for Washington and Oregon Waters.

PZZ081 - Cape Flattery to Cape Lookout.

PZZ082 - Cape Lookout to Point St. George

Pacific Ocean- PZ6 waters

PZZ089 - Synopsis for California Waters Offshore.

PZZ083 - Point St. George to Point Arena.

PZZ084 - Point Arena to Point Conception.

PZZ085 - Point Conception to Guadalupe Island.

4. Rationale for the proposed offshore waters zone configuration

The text formatter in GFE works best with smaller zones which are based on local climate regimes that are more or less homogenous. The proposed zone configurations were designed with this in mind. A key consideration for the layout of the proposed zones is the climatology of 10 m Quikscat winds. Local climatology and bathymetry were other factors considered as well. An "inner" marine zone was added wherever practical in order to help local WFOs maintain an effective NOAA Weather Radio program as well as to provide more specific information to mariners near the coast. The position of the Gulf Stream was taken into account for the Atlantic zones. The zone configurations were adjusted where possible to coincide with existing marine boundaries from coastal weather forecast offices (WFO). Input from coastal offices was taken into account to define the boundaries. Customer feedback for the changes has been positive since users have expressed the concern that the offshore forecasts cover such a large area that they often times are not specific enough for their needs.

The zone names reflect well-known geographical entities covered in the zone area whenever possible (e.g. "Gulf of Maine"). In the absence of a convenient geographical reference, the zone name includes a well-known bathymetric feature whenever possible (e.g. "1000 fathoms"). In some instances, boundaries were described by latitude and/or longitude description.

Finally, all of the proposed zone numbers have new Universal Geographical Codes (UGC) which do not re-use any of the current zone numbers.

5. Proposed new Zone numbers for the Offshore Waters Zones

Figure 3 and Figure 4 depict the proposed offshore waters zone configuration for OPC's Atlantic (OFFNT1, OFFNT2) and Pacific (OFFPZ5, OFFPZ6) offshore waters area of responsibility. The proposed Universal Geographical Code (UGC) zone numbers and geographical descriptions for the OPC offshore waters are listed below.

OPC Atlantic Offshore Waters

ANZ898 - Synopsis for New England Waters.
ANZ899 - Synopsis for Mid Atlantic Waters.
ANZ800 - Gulf of Maine to the Hague Line.
ANZ805 - Georges Bank from the Northeast Channel to the Great South Channel including the waters east of Cape Cod and west of 68W
ANZ810 - South of New England from the Great South Channel to Montauk, NY including the waters south of Martha's Vineyard and Nantucket Island out to 1000 fathoms.
ANZ815 - South of Long Island from Montauk, NY to Sandy Hook, NJ out to 1000 fathoms.
ANZ820 - Hudson Canyon to Baltimore Canyon out to 1000 fathoms.
ANZ825 - Baltimore Canyon to Cape Charles Light out to 100 NM Offshore.
ANZ828 - Cape Charles Light to Currituck Beach Light out to 100 NM Offshore.
ANZ830 - Currituck Beach Light to Cape Hatteras out to 100 NM Offshore
ANZ833 - Cape Hatteras to Cape Fear out to 100 NM Offshore
ANZ835 - Cape Fear to 31N out to 1000 FM.
ANZ900 - Georges Bank from the Northeast Channel to the Great South Channel east of 68W to the Hague Line.
ANZ905 - The Great South Channel to The Hague Line including the waters south of 1000 fathoms to 39N.
ANZ910 - East of The Great South Channel and south of 39N out to 250 NM Offshore.
ANZ915 - Hudson Canyon to the Great South Channel including the waters south of 1000 fathoms out to 38.5N.
ANZ920 - Baltimore Canyon to The Great South Channel including the waters east of 1000 fathoms and south of 38.5N out to 250 NM Offshore.
ANZ925 - Baltimore Canyon to Hatteras Canyon including the waters between 100 NM and 250 NM Offshore.
ANZ930 - Hatteras Canyon to Cape Fear including the waters between 100 NM and 250 NM Offshore.
ANZ935 - Cape Fear to 31N including the waters east of 1000 fathoms out to 250 NM Offshore.

OPC Pacific Offshore Waters

PZZ898 - Synopsis for Washington and Oregon waters
PZZ899 - Synopsis for California waters
PZZ800 - Cape Flattery to Cape Shoalwater out to 150 NM Offshore
PZZ805 - Cape Shoalwater to Cape Lookout out to 150 NM Offshore
PZZ810 - Cape Lookout to Florence, OR out to 150 NM Offshore
PZZ815 - Florence, OR to Point St. George out to 150 NM Offshore
PZZ900 - Cape Flattery to Cape Shoalwater between 150 NM and 250 NM Offshore
PZZ905 - Cape Shoalwater to Cape Lookout between 150 NM and 250 NM Offshore
PZZ910 - Cape Lookout to Florence, OR between 150 NM and 250 NM Offshore
PZZ915 - Florence, OR to Point St. George between 150 NM and 250 NM Offshore
PZZ820 - Point St. George to Point Arena out to 150 NM Offshore
PZZ825 - Point Arena to Pigeon Point out to 150 NM Offshore
PZZ830 - Pigeon Point to Point Piedras Blancas out to 150 NM Offshore
PZZ835 - Point Piedras Blancas to Santa Cruz Island, CA out to 150 NM Offshore
PZZ840 - Santa Cruz Island, CA to San Clemente Island, CA out to 150 NM Offshore
PZZ920 - Point St. George to Point Arena between 150 NM and 250 NM Offshore
PZZ925 - Point Arena to Pigeon Point between 150 NM and 250 NM Offshore
PZZ930 - Pigeon Point to Point Piedras Blancas between 150 NM and 250 NM Offshore
PZZ935 - Point Piedras Blancas to Santa Cruz Island, CA between 150 NM and 250 NM Offshore
PZZ940 - Santa Cruz Island, CA to 120W between 150 NM and 250 NM Offshore
PZZ945 - 120W to San Clemente Island, CA between 150 NM and 250 NM Offshore

Appendices A and B provide samples of the offshore forecasts for the Atlantic and Pacific with the new zone configuration.

6. Dissemination and operational backup

NAVTEX

The GFE text formatters produce a NAVTEX product which derives the pertinent marine information from the gridded forecast database. The GFE NAVTEX text products are similar to the current NAVTEX products, but both versions sometimes exceed the 89 line limit set forth in the NWS marine directives. The NAVTEX products produced by the GFE text formatters are an improvement over the existing NAVTEX products since GFE incorporates coastal marine warnings and describes marine weather conditions within the mandated 250 nm area of the transmitter site. These features were the original requirements of the NAVTEX products, but the current NAVTEX format does not adhere to them.

In order to optimize the GFE text formatter software, slight changes to the NAVTEX coverage areas are needed. [Figure 5](#) and [Figure 6](#) are a depiction of the proposed shape file that GFE will use to generate NAVTEX forecasts within OPC's offshore areas of responsibility. Appendix C provides a sample of a NAVTEX product for OFFN01.

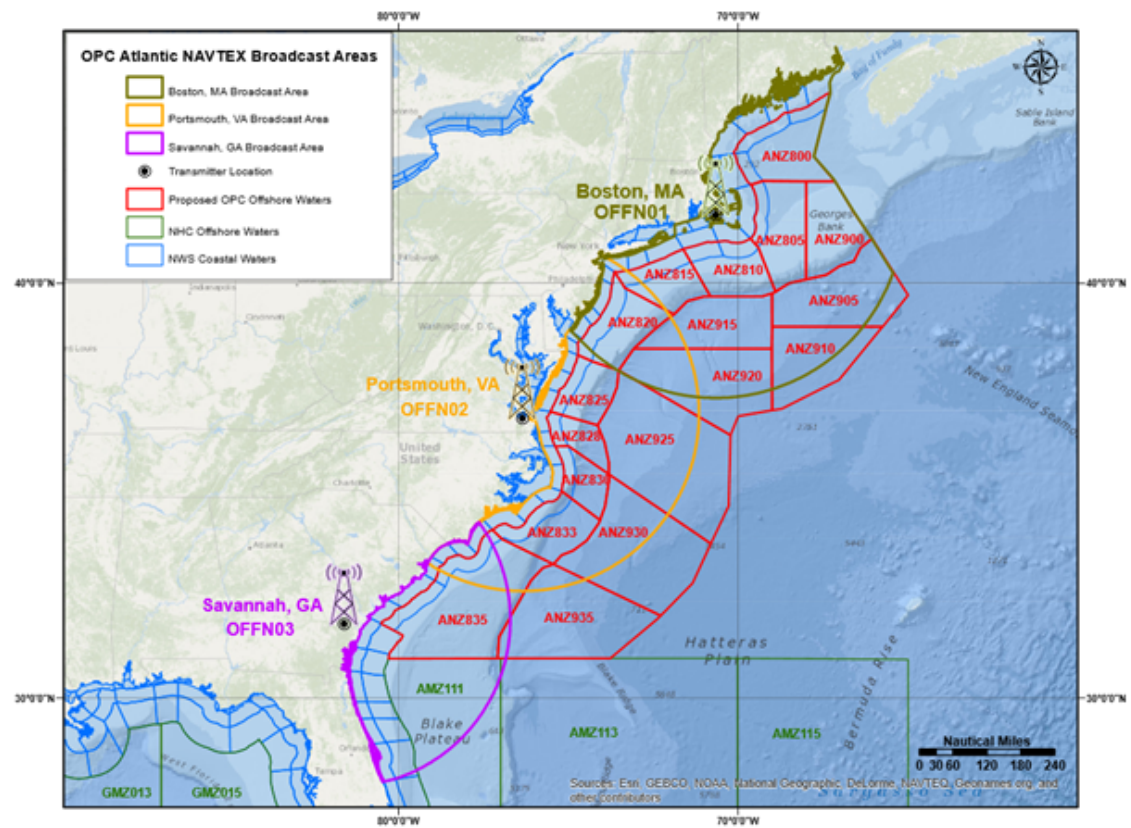


Figure 5. Proposed shape files for the Atlantic NAVTEX coverage area for the GFE text formatters. The three NAVTEX transmitters in OPC's Atlantic Area of Responsibility (AOR) are Boston MA, Portsmouth VA, and Savannah GA. They broadcast the OFFN01, OFFN02, and OFFN03 NAVTEX products.

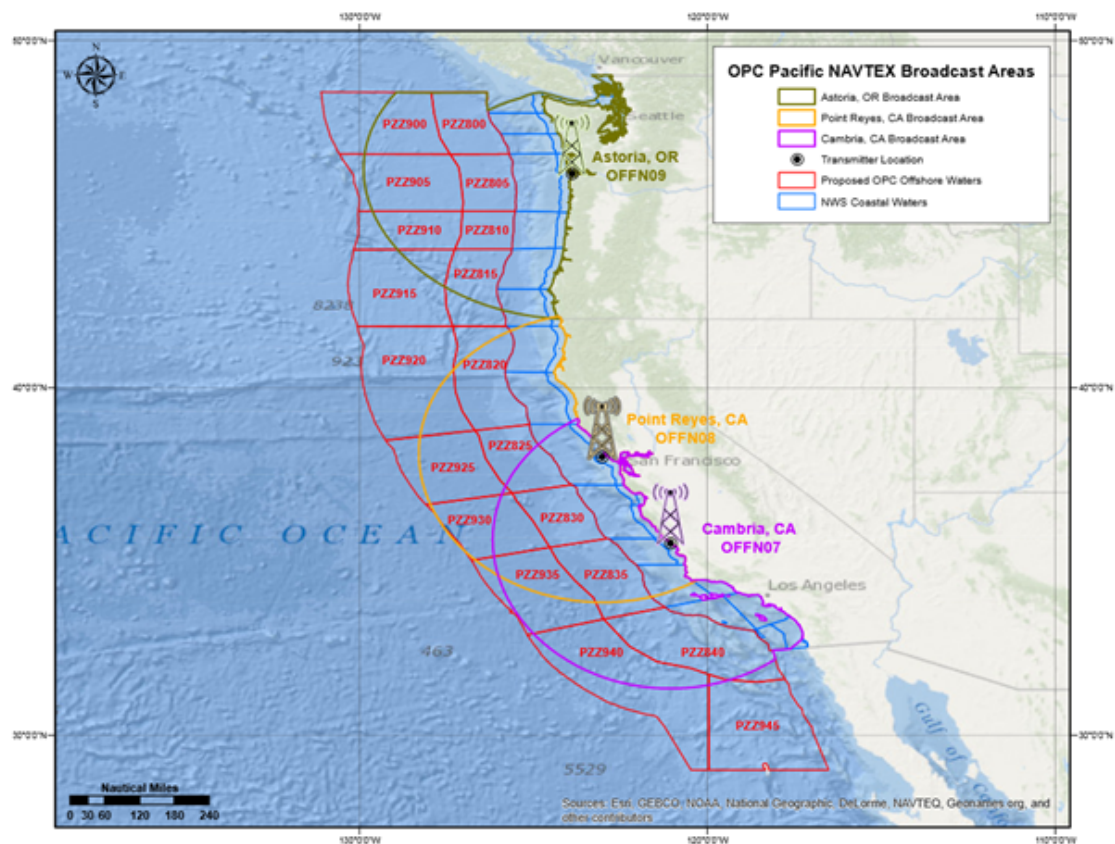
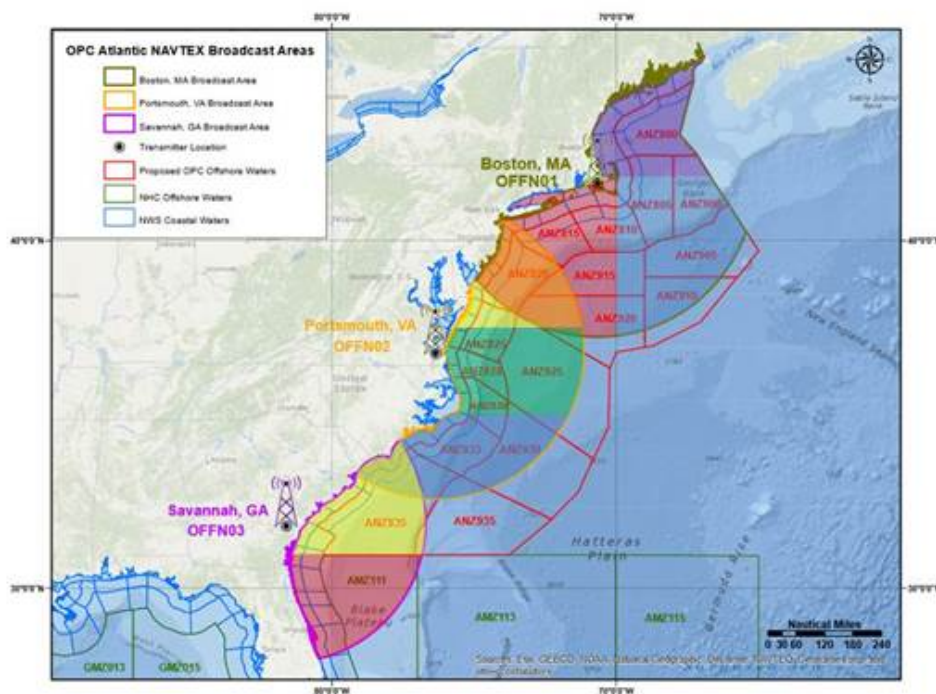


Figure 6. Proposed shape files for the Pacific NAVTEX coverage area for the GFE text formatters. The three NAVTEX transmitters in OPC's Pacific AOR are Astoria OR, Point Reyes CA and Cambria CA. They broadcast the OFFN09, OFFN08 and OFFN07 NAVTEX products.



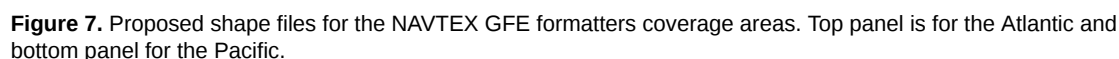


Figure 7 shows the NAVTEX formatter coverage areas for the Atlantic and Pacific. The shading in the figure indicates subdivisions within the transmitter area for separate forecasts and forecast area descriptions.

N01: Eastport Maine to Cape Cod...east to the Hague line Cape Cod to Nantucket Shoals and Georges Bank...east to the Hague Line South of New England...out to 1000 FMS
N02: Sandy Hook to Fenwick Island...out to 250 NM Fenwick Island to Cape Hatteras...out to 250 NM Cape Hatteras to Murrells Inlet...out to 250 NMM
N03: Murrells Inlet to 31N...out 250 NM South of 31N...out to 65W

N01: Eastport Maine to Cape Cod...east to the Hague line Cape Cod to Nantucket Shoals and Georges Bank east of 70W...to the Hague Line South of New England...to 70W
N02: Sandy Hook to 37.5N...out to 250 NM 37.5N to Cape Hatteras...out to 250 NM Cape Hatteras to Murrells Inlet...out to 250 NM
N03: Murrells Inlet to 31N...out 250 NM South of 31N...out to 1000 FMS

N09: Canadian Border to Cape Lookout Cape Lookout to Point Saint George
N08: Point Saint George Point Arena Point Arena to Point Piedras Blancas...out to 250 NM
N07: Point Piedras Blancas to Point Conception Point Conception to the Mexico Border

N09: Canadian Border to 45N...out to 250 NM 45N to Point Saint George...out to 250 NM
 N08: Point Saint George to 38N...out to 250 NM 38N to Point Piedras Blancas...out to 250 NM
 N07: Point Arena to 35N...out to 250 NM 35N to the Mexico Border...out to 250 NM

The United States Coast Guard (USCG) provides a high frequency voice broadcast (VOBRA) of the OPC offshore waters forecasts.

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The proposed solution for the VOBRA is the same approach used by the National Hurricane Center's [Tropical Analysis and Forecast Branch \(TAFB\)](#) when they converted to new zones in April 2012. This approach is to combine the proposed new offshore marine zones in a manner similar to the current zone configuration. [Figure 8](#) and [Figure 9](#) show the current and proposed VOBRA zone groupings. This solution would limit the broadcast cycle to the current time since it would preserve the same number of zone combinations and also retain the spatial coverage of the full OFFNT1 and OFFNT2 domains. In addition, this solution would still provide temporal coverage out to five days. [Appendices D and E](#) provide samples of the offshore waters forecasts produced by combining the proposed offshore waters zones to replicate the current offshore waters zone configuration to prepare a script for VOBRA purposes.



**Ocean Prediction Center
Proposed Atlantic Offshore Waters**

- Proposed OPC Offshore Zones
- NHC Offshore Waters
- NWS Coastal Waters
- South Wall of the Gulf Stream
- North Wall of the Gulf Stream

AMZ000 Reserved for NT1 Synopses
AMZ009 Reserved for NT1 Synopses

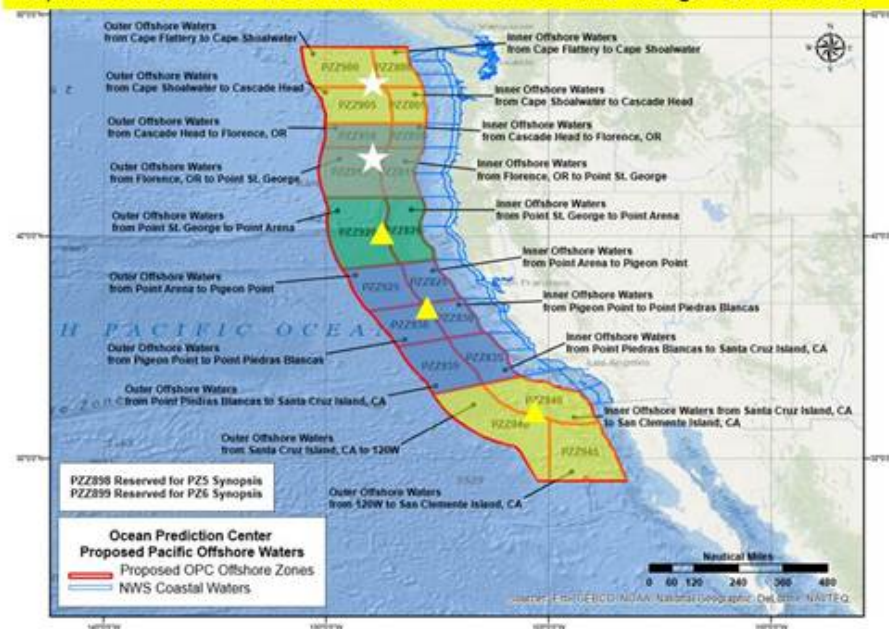
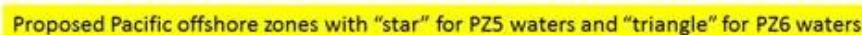
South of New England
South of Long Island
Hudson to Baltimore Canyon
Hudson Canyon to The Great South Channel
Baltimore Canyon to Cape Charles Light
Cape Charles Light to Currituck Beach Light
Currituck Beach Light to Cape Hatteras
Cape Hatteras to Cape Fear
Cape Fear to 31N West of 1000 FM

South of New England
Gulf of Maine
Georges Bank East of 65W
Georges Bank West of 66W
The Great South Channel to The Hague Line
East of The Great South Channel and South of 35N
Baltimore Canyon to The Great South Channel
Outer Offshore Waters from Baltimore Canyon to Hatteras Canyon
Hatteras Canyon to Cape Fear
Hatteras
Cape Fear to 31N East of 1000 FM

AMZ010
AMZ011
AMZ012
AMZ013
AMZ014
AMZ015
AMZ016
AMZ017
AMZ018
AMZ019
AMZ020
AMZ021
AMZ022
AMZ023
AMZ024
AMZ025
AMZ026
AMZ027
AMZ028
AMZ029
AMZ030
AMZ031
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AMZ091
AMZ092
AMZ093
AMZ094
AMZ095
AMZ096
AMZ097
AMZ098
AMZ099

Proposed Atlantic offshore zones with "star" for NT1 waters and "triangle" for NT2 waters

08/12/2013 03:26 PM



OPC will produce a set of zones for both the Atlantic and Pacific that mirror the "old" zones for backup purposes. In order to facilitate text backup, the same number of zone combinations that are currently produced, eight in the Atlantic and five in the Pacific, will routinely be prepared with GFE. In the event that OPC had to request unscheduled service backup, the backup offices could manually edit the text for the five Pacific zones or eight Atlantic zones as

they currently do for backup. They would always be able to start with the most current forecast produced by OPC in the old zone groupings. The logic behind this is that with the new zones there are too many to be able to manually edit the numbers of zones required (18 for the Atlantic and 19 for the Pacific). In the long term, OPC is pursuing gridded backup which would eliminate the need for producing legacy text forecasts routinely.

7. Graphical View of Sample Forecasts

New sample offshore waters forecasts that update every 6 hours are available at the following URL:

http://www.opc.ncep.noaa.gov/new_offshore/new_zones_map_mouseover.php

8. Questions and Comments

If you have any questions or comments about this reconfiguration of OPC offshore waters marine zones please contact:

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You may also provide [comments and feedback at this page using the web form](#).

Appendix A. Sample text output for new Offshore Waters Zones for the Atlantic (OFFNT1)

FZNT21 KWBC 120800
OFFNT1

OFFSHORE WATERS FORECAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
400 AM EDT MON AUG 12 2013

NEW ENGLAND CONTINENTAL SHELF AND SLOPE WATERS FROM 25 NM
OFFSHORE TO THE HAGUE LINE...EXCEPT TO 1000 FM S OF NEW ENGLAND

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

ANZ080-121930-
400 AM EDT MON AUG 12 2013

.SYNOPSIS FOR NEW ENGLAND WATERS...A STATIONARY FRONT SE OF THE
WATERS NEAR CAPE HATTERAS WILL DRIFT N AND WEAKEN TODAY INTO TUE
AS WEAK LOW PRES MOVES E ALONG THE FRONT. AN AREA OF HIGH PRES
JUST W OF THE REGION WILL MOVE E THROUGH THE WATERS EARLY TODAY.
ANOTHER COLD FRONT WILL MOVE SE OVER THE REGION TUE NIGHT...THEN
PASS S OF THE WATERS WED BEFORE STALLING OFF THE MID ATLANTIC
COAST THU. A LOW WILL DEVELOP ALONG THE FRONT FRI AND LIFT IT N
AS A WARM FRONT. ANOTHER AREA OF HIGH PRES WILL BUILD E FROM THE

GREAT LAKES WED...PASS THROUGH THE WATERS THU...THEN MOVE E OF
THE AREA FRI.

\$\$

ANZ800-121930-
GULF OF MAINE TO THE HAGUE LINE-
400 AM EDT MON AUG 12 2013

.TODAY...W WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT IN THE
AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 2 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW IN THE
AFTERNOON. SEAS 2 TO 4 FT. TSTMS AND AREAS OF FOG WITH VSBY 1 NM
OR LESS.
.TUE NIGHT...W TO SW WINDS 10 TO 20 KT...BECOMING W 10 TO 15 KT
AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.WED...N TO NW WINDS 5 TO 15 KT...BECOMING W TO NW LATE. SEAS
2 TO 4 FT.
.THU...W TO NW WINDS 5 TO 15 KT...BECOMING S TO SW 10 TO 20 KT
LATE. SEAS 2 TO 4 FT.
.FRI...W TO SW WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT
LATE. SEAS 2 TO 3 FT.

\$\$

ANZ805-121930-
GEORGES BANK...INCLUDING THE WATERS EAST OF CAPE COD AND WEST OF
68W-
400 AM EDT MON AUG 12 2013

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE
AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 15 KT...BECOMING W TO SW 5 TO 15 KT IN
THE AFTERNOON. SEAS 3 TO 4 FT. TSTMS AND AREAS OF FOG WITH VSBY
1 NM OR LESS.
.TUE NIGHT...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW 5 TO
15 KT AFTER MIDNIGHT. SEAS 3 TO 4 FT. TSTMS.
.WED...W TO NW WINDS 5 TO 15 KT...BECOMING N TO NW LATE. SEAS
3 TO 5 FT.
.THU...N TO NW WINDS LESS THAN 10 KT...BECOMING S TO SW LATE.
SEAS 2 TO 4 FT.
.FRI...SW WINDS 5 TO 10 KT...BECOMING E 10 TO 20 KT LATE. SEAS
2 TO 3 FT...BUILDING TO 3 TO 5 FT LATE.

\$\$

ANZ900-121930-
GEORGES BANK...EAST OF 68W TO THE HAGUE LINE-
400 AM EDT MON AUG 12 2013

.TODAY...W TO NW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE
AFTERNOON. SEAS 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.TUE...S TO SW WINDS 15 TO 20 KT...BECOMING W TO SW 10 TO 20 KT
IN THE AFTERNOON. SEAS 3 TO 5 FT. SCATTERED SHOWERS AND TSTMS
WITH POSSIBLE FOG WITH VSBY 1 NM OR LESS.
.TUE NIGHT...W TO SW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT. TSTMS AND
AREAS OF FOG WITH VSBY 1 NM OR LESS.
.WED...W TO NW WINDS 5 TO 15 KT...BECOMING N TO NW LATE. SEAS
3 TO 5 FT.
.THU...W TO NW WINDS LESS THAN 10 KT...BECOMING W TO SW LATE.
SEAS 3 TO 4 FT.

.FRI...E TO SE WINDS LESS THAN 10 KT...INCREASING TO 10 TO 20 KT
LATE. SEAS 2 TO 4 FT.

\$\$

ANZ810-121930-

SOUTH OF NEW ENGLAND...FROM THE GREAT SOUTH CHANNEL TO MONTAUK,
NY INCLUDING THE WATERS SOUTH OF MARTHA'S VINEYARD AND NANTUCKET
ISLAND...OUT TO 1000 FM-
400 AM EDT MON AUG 12 2013

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE
MORNING...THEN...INCREASING TO 10 TO 15 KT IN THE AFTERNOON. SEAS
2 TO 3 FT.

.TONIGHT...S TO SW WINDS 5 TO 15 KT. SEAS 2 TO 3 FT.

.TUE...W TO SW WINDS 5 TO 15 KT...BECOMING W TO NW IN THE
AFTERNOON. SEAS 2 TO 4 FT. CHANCE OF RAIN IN THE AFTERNOON.

.TUE NIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING W TO SW AFTER
MIDNIGHT. SEAS 2 TO 3 FT.

.WED...W TO NW WINDS 10 TO 15 KT...BECOMING N TO NE 5 TO 15 KT
LATE. SEAS 3 TO 5 FT.

.THU...E TO SE WINDS LESS THAN 10 KT...BECOMING S TO SE LATE.
SEAS 2 TO 4 FT.

.FRI...E TO SE WINDS LESS THAN 10 KT...BECOMING E TO NE 10 TO
20 KT LATE. SEAS 2 TO 3 FT...BUILDING TO 3 TO 5 FT LATE.

\$\$

ANZ815-121930-

SOUTH OF LONG ISLAND...FROM MONTAUK, NY TO SANDY HOOK, NJ...OUT
TO 1000 FM-
400 AM EDT MON AUG 12 2013

.TODAY...S TO SW WINDS LESS THAN 10 KT. SEAS 2 TO 3 FT.

.TONIGHT...SW WINDS 5 TO 10 KT. SEAS 2 TO 3 FT.

.TUE...W TO NW WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT IN
THE AFTERNOON. SEAS 2 TO 3 FT. TSTMS AND CHANCE OF RAIN.

.TUE NIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING W TO NW 10 TO
15 KT AFTER MIDNIGHT. SEAS 2 TO 3 FT.

.WED...N TO NW WINDS 5 TO 15 KT. SEAS 2 TO 4 FT.

.THU...N TO NE WINDS LESS THAN 10 KT...BECOMING S LATE. SEAS
2 TO 3 FT.

.FRI...E TO NE WINDS LESS THAN 10 KT...INCREASING TO 5 TO 15 KT
LATE. SEAS 2 TO 4 FT.

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.FORECASTER OPC. OCEAN PREDICTION CENTER.

Note: Link to current OFFNT1 is available at <http://www.opc.ncep.noaa.gov/shtml/NFDOFFNT1.shtml>

Appendix B. Sample text output for new Offshore Waters Zones for the Pacific (OFFPZ5)

FZPN25 KWBC 120730
OFFPZ5

OFFSHORE WATERS FORECAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
330 AM PDT MON AUG 12 2013

WASHINGTON AND OREGON WATERS-
INNER WATERS FROM 60 NM TO 150 NM OFFSHORE.

OUTER WATERS FROM 150 NM TO 250 NM OFFSHORE.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

PZZ080-122200-
330 AM PDT MON AUG 12 2013

.SYNOPSIS FOR WASHINGTON AND OREGON WATERS...HIGH PRES WILL SLOWLY BUILD E ACROSS THE WATERS OVERNIGHT...THEN GRADUALLY WEAKEN MON INTO MON NIGHT. LOW PRES AND A COLD FRONT WILL APPROACH THE REGION TUE AND TUE NIGHT. THE LOW WILL PASS JUST NW OF THE WATERS WED AND THU...AS THE COLD FRONT DRIFTS E ACROSS THE AREA AND DISSIPATES. A WEAKENING LOW WILL MOVE NE ACROSS THE NRN WATERS FRI.

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PZZ800-122200-
INNER WATERS FROM CAPE FLATTERY TO CAPE SHOALWATER-
330 AM PDT MON AUG 12 2013

.TODAY...W TO SW WINDS LESS THAN 5 KT. SEAS 3 TO 4 FT.
.TONIGHT...W TO SW WINDS LESS THAN 5 KT...BECOMING S AFTER MIDNIGHT. SEAS 3 FT.
.TUE...S TO SE WINDS LESS THAN 10 KT. SEAS 2 TO 4 FT.
.TUE NIGHT...S TO SW WINDS LESS THAN 10 KT...BECOMING S TO SE AFTER MIDNIGHT. SEAS 2 TO 4 FT.
.WED...S TO SE WINDS 5 TO 15 KT...BECOMING S TO SW LATE. SEAS 3 TO 5 FT.
.THU...S TO SW WINDS LESS THAN 5 KT...BECOMING S TO SE LATE. SEAS 3 TO 4 FT.
.FRI...S TO SE WINDS 5 TO 10 KT...BECOMING S TO SW LATE. SEAS 3 TO 5 FT.

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PZZ900-122200-
OUTER WATERS FROM CAPE FLATTERY TO CAPE SHOALWATER-
330 AM PDT MON AUG 12 2013

.TODAY...W TO NW WINDS LESS THAN 5 KT...BECOMING S TO SW 5 TO 15 KT IN THE AFTERNOON. SEAS 3 TO 4 FT.
.TONIGHT...S TO SE WINDS 5 TO 15 KT...INCREASING TO 10 TO 20 KT AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.TUE...S TO SE WINDS 10 TO 20 KT. SEAS 4 TO 7 FT. CHANCE OF RAIN.
.TUE NIGHT...S TO SE WINDS 10 TO 20 KT. SEAS 4 TO 7 FT. CHANCE OF RAIN AND TSTMS.
.WED...S TO SW WINDS 10 TO 20 KT...DIMINISHING TO 5 TO 15 KT LATE. SEAS 4 TO 6 FT.
.THU...S TO SW WINDS 5 TO 10 KT...BECOMING S TO SE 10 TO 20 KT LATE. SEAS 3 TO 5 FT.
.FRI...S TO SE WINDS 5 TO 15 KT...BECOMING NW LATE. SEAS 3 TO 6 FT.

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PZZ805-122200-
INNER WATERS FROM CAPE SHOALWATER TO CAPE LOOKOUT-
330 AM PDT MON AUG 12 2013

.TODAY...W TO NW WINDS LESS THAN 5 KT. SEAS 3 TO 4 FT.
.TONIGHT...W TO NW WINDS LESS THAN 5 KT...BECOMING SE AFTER

MIDNIGHT. SEAS 3 FT.
.TUE...S WINDS LESS THAN 10 KT. SEAS 2 TO 3 FT.
.TUE NIGHT...S WINDS LESS THAN 10 KT...BECOMING S TO SW AFTER
MIDNIGHT. SEAS 2 TO 4 FT.
.WED...S WINDS 5 TO 15 KT...BECOMING S TO SW 5 TO 10 KT LATE.
SEAS 3 TO 5 FT.
.THU...S TO SE WINDS LESS THAN 5 KT. SEAS 3 TO 4 FT.
.FRI...S TO SW WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.

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PZZ905-122200-
OUTER WATERS FROM CAPE SHOALWATER TO CAPE LOOKOUT-
330 AM PDT MON AUG 12 2013

.TODAY...W TO NW WINDS LESS THAN 5 KT...BECOMING NW IN THE
MORNING...THEN...BECOMING S TO SW IN THE AFTERNOON. SEAS 3 TO
4 FT.
.TONIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING S TO SE 10 TO
20 KT AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.TUE...S WINDS 10 TO 20 KT. SEAS 4 TO 7 FT.
.TUE NIGHT...S TO SE WINDS 10 TO 20 KT...BECOMING S TO SW AFTER
MIDNIGHT. SEAS 3 TO 6 FT. CHANCE OF TSTMS AFTER MIDNIGHT.
.WED...S TO SW WINDS 5 TO 15 KT...DIMINISHING TO LESS THAN 10 KT
LATE. SEAS 4 TO 6 FT.
.THU...S TO SE WINDS LESS THAN 10 KT...INCREASING TO 5 TO 15 KT
LATE. SEAS 3 TO 5 FT.
.FRI...S TO SW WINDS 5 TO 15 KT...BECOMING NW LATE. SEAS 3 TO
5 FT.

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PZZ810-122200-
INNER WATERS FROM CAPE LOOKOUT TO FLORENCE OR-
330 AM PDT MON AUG 12 2013

.TODAY...N TO NW WINDS LESS THAN 5 KT...BECOMING LESS THAN 10 KT
IN THE AFTERNOON. SEAS 3 TO 4 FT.
.TONIGHT...N TO NW WINDS LESS THAN 10 KT...BECOMING N AFTER
MIDNIGHT. SEAS 3 FT.
.TUE...SE WINDS LESS THAN 5 KT...BECOMING S IN THE AFTERNOON.
SEAS 2 TO 3 FT.
.TUE NIGHT...S TO SE WINDS LESS THAN 10 KT. SEAS 2 TO 4 FT.
.WED...S WINDS 5 TO 15 KT...BECOMING S TO SW LATE. SEAS 3 TO
5 FT.
.THU...S TO SE WINDS LESS THAN 10 KT...BECOMING S TO SW LATE.
SEAS 3 TO 4 FT.
.FRI...W TO SW WINDS 5 TO 10 KT. SEAS 3 TO 5 FT.

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PZZ910-122200-
OUTER WATERS FROM CAPE LOOKOUT TO FLORENCE OR-
330 AM PDT MON AUG 12 2013

.TODAY...NW WINDS LESS THAN 5 KT...BECOMING S IN THE MORNING...
THEN...INCREASING TO 5 TO 15 KT IN THE AFTERNOON. SEAS 3 TO 4 FT.
.TONIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING S TO SE AFTER
MIDNIGHT. SEAS 3 TO 5 FT.
.TUE...S WINDS 10 TO 20 KT. SEAS 3 TO 6 FT.
.TUE NIGHT...S WINDS 10 TO 20 KT...BECOMING S TO SW 5 TO 15 KT
AFTER MIDNIGHT. SEAS 3 TO 6 FT. CHANCE OF TSTMS AFTER MIDNIGHT.
.WED...S TO SW WINDS 5 TO 15 KT...BECOMING W TO SW LATE. SEAS
4 TO 5 FT.

.THU...S WINDS LESS THAN 10 KT...BECOMING S TO SW LATE. SEAS 3 TO 5 FT.

.FRI...S TO SW WINDS 5 TO 15 KT...BECOMING W TO SW 10 TO 15 KT LATE. SEAS 3 TO 5 FT.

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PZZ815-122200-

INNER WATERS FROM FLORENCE OR TO POINT ST. GEORGE-
330 AM PDT MON AUG 12 2013

.TODAY...N TO NW WINDS 5 TO 15 KT. SEAS 3 TO 4 FT.

.TONIGHT...N TO NW WINDS 5 TO 15 KT...BECOMING N TO NE AFTER MIDNIGHT. SEAS 3 TO 4 FT.

.TUE...N TO NE WINDS LESS THAN 10 KT...BECOMING S IN THE AFTERNOON. SEAS 2 TO 3 FT.

.TUE NIGHT...S TO SW WINDS LESS THAN 10 KT. SEAS 2 TO 4 FT.

.WED...S TO SW WINDS 5 TO 15 KT...DIMINISHING TO LESS THAN 10 KT LATE. SEAS 3 TO 5 FT.

.THU...S WINDS LESS THAN 10 KT. SEAS 3 TO 4 FT.

.FRI...W TO SW WINDS LESS THAN 10 KT. SEAS 3 TO 5 FT.

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PZZ915-122200-

OUTER WATERS FROM FLORENCE OR TO POINT ST. GEORGE-
330 AM PDT MON AUG 12 2013

.TODAY...SW WINDS LESS THAN 10 KT...BECOMING S IN THE MORNING... THEN...BECOMING S TO SW IN THE AFTERNOON. SEAS 3 TO 4 FT.

.TONIGHT...S TO SW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.

.TUE...S TO SE WINDS 10 TO 20 KT...BECOMING S TO SW IN THE AFTERNOON. SEAS 3 TO 6 FT.

.TUE NIGHT...S WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.

.WED...S WINDS 5 TO 15 KT...BECOMING NE LATE. SEAS 3 TO 5 FT.

.THU...S WINDS LESS THAN 10 KT...BECOMING S TO SW LATE. SEAS 3 TO 5 FT.

.FRI...S TO SW WINDS 5 TO 15 KT...BECOMING W TO NW 5 TO 10 KT LATE. SEAS 3 TO 6 FT.

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.FORECASTER OPC. OCEAN PREDICTION CENTER.

Note: Link to current OFFPZ5 is available at <http://www.opc.ncep.noaa.gov/shtml/NFDOFFPZ5.shtml>

Appendix C. Example of the NAVTEX product for the Boston transmitter (OFFN01) produced by new text formatters.

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FZNT23 KWNM 120932

OFFN01

NAVTEX MARINE FORECAST FOR NE US WATERS
NWS OCEAN PREDICTION CENTER WASHINGTON DC
531 AM EDT MON AUG 12 2013

...PLEASE REFER TO COASTAL WATERS FORECASTS (CWF) AVAILABLE THROUGH NOAA WEATHER RADIO AND OTHER MEANS FOR DETAILED COASTAL WATERS FORECASTS...

.SYNOPSIS...A STATIONARY FRONT SE OF THE WATERS NEAR CAPE

HATTERAS WILL DRIFT N AND WEAKEN TODAY INTO TUE AS WEAK LOW PRES MOVES E ALONG THE FRONT. AN AREA OF HIGH PRES JUST W OF THE REGION WILL MOVE E THROUGH THE WATERS EARLY TODAY. ANOTHER COLD FRONT WILL MOVE SE OVER THE REGION TUE NIGHT...THEN PASS S OF THE WATERS WED BEFORE STALLING OFF THE MID ATLANTIC COAST THU. A LOW WILL DEVELOP ALONG THE FRONT FRI AND LIFT IT N AS A WARM FRONT. ANOTHER AREA OF HIGH PRES WILL BUILD E FROM THE GREAT LAKES WED...PASS THROUGH THE WATERS THU...THEN MOVE E OF THE AREA FRI.

EASTPORT MAINE TO CAPE COD...EAST TO THE HAGUE LINE

.TODAY...W TO SW WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT IN THE AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 2 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW IN THE AFTERNOON. SEAS 2 TO 4 FT. CHANCE OF TSTMS AND AREAS OF FOG WITH VSBY 1 NM OR LESS.
.TUE NIGHT...W TO SW WINDS 10 TO 20 KT...BECOMING 10 TO 15 KT AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.WED...W TO NW WINDS 5 TO 15 KT. SEAS 2 TO 4 FT.
.THU...W TO SW WINDS 10 TO 20 KT. SEAS 2 TO 4 FT.
.FRI...S TO SW WINDS 5 TO 15 KT. SEAS 2 TO 3 FT.

CAPE COD TO NANTUCKET SHOALS AND GEORGES BANK...EAST TO THE HAGUE LINE

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW IN THE AFTERNOON. SEAS 3 TO 5 FT. CHANCE OF TSTMS AND AREAS OF FOG WITH VSBY 1 NM OR LESS.
.TUE NIGHT...W TO SW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT. AREAS OF FOG WITH VSBY 1 NM OR LESS IN THE EVENING. CHANCE OF TSTMS.
.WED...N TO NW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.
.THU...W TO SW WINDS LESS THAN 10 KT. SEAS 2 TO 4 FT.
.FRI...E TO SE WINDS 10 TO 20 KT. SEAS 3 TO 5 FT.

SOUTH OF NEW ENGLAND...OUT TO 1000 FMS

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE MORNING...THEN...INCREASING TO 5 TO 15 KT IN THE AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 5 TO 15 KT. SEAS 2 TO 3 FT.
.TUE...W TO SW WINDS 5 TO 15 KT...BECOMING S IN THE AFTERNOON. SEAS 2 TO 4 FT. CHANCE OF TSTMS. RAIN IN THE AFTERNOON.
.TUE NIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING W TO NW AFTER MIDNIGHT. SEAS 2 TO 3 FT.
.WED...N TO NW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.
.THU...S TO SE WINDS LESS THAN 10 KT. SEAS 2 TO 4 FT.
.FRI...E TO NE WINDS 10 TO 20 KT. SEAS 3 TO 5 FT.

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.FORECASTER OPC. OCEAN PREDICTION CENTER.

Note: Link to current OFFN01 is available at <http://www.opc.ncep.noaa.gov/shtml/NFDOFFN01.shtml>

Appendix D. Example output of script which utilizes zone combining in the Atlantic offshore waters (OFFNT1) forecast to produce the new VOBRA.

FZNT33 KWBC 120800
OFFN31

MARINE WEATHER HF VOICE BROADCAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
400 AM EDT MON AUG 12 2013

MARINE WEATHER HF VOICE BROADCAST FOR THE NEW ENGLAND
CONTINENTAL SHELF AND SLOPE WATERS FROM 25 NM OFFSHORE TO THE
HAGUE LINE...EXCEPT TO 1000 FM S OF NEW ENGLAND

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SYNOPSIS FOR NEW ENGLAND WATERS

.SYNOPSIS...A STATIONARY FRONT SE OF THE WATERS NEAR CAPE
HATTERAS WILL DRIFT N AND WEAKEN TODAY INTO TUE AS WEAK LOW
PRES MOVES E ALONG THE FRONT. AN AREA OF HIGH PRES JUST W OF
THE REGION WILL MOVE E THROUGH THE WATERS EARLY TODAY.
ANOTHER COLD FRONT WILL MOVE SE OVER THE REGION TUE NIGHT...THEN
PASS S OF THE WATERS WED BEFORE STALLING OFF THE MID ATLANTIC
COAST THU. A LOW WILL DEVELOP ALONG THE FRONT FRI AND LIFT IT N
AS A WARM FRONT. ANOTHER AREA OF HIGH PRES WILL BUILD E FROM THE
GREAT LAKES WED...PASS THROUGH THE WATERS THU...THEN MOVE E OF
THE AREA FRI.

GULF OF MAINE TO THE HAGUE LINE-

.TODAY...W WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT IN THE
AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 2 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW IN THE
AFTERNOON. SEAS 2 TO 4 FT. TSTMS AND AREAS OF FOG WITH VSBY 1 NM
OR LESS.
.TUE NIGHT...W TO SW WINDS 10 TO 20 KT...BECOMING W 10 TO 15 KT
AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.WED...N TO NW WINDS 5 TO 15 KT...BECOMING W TO NW LATE. SEAS
2 TO 4 FT.
.THU...W TO NW WINDS 5 TO 15 KT...BECOMING S TO SW 10 TO 20 KT
LATE. SEAS 2 TO 4 FT.
.FRI...W TO SW WINDS 5 TO 10 KT...BECOMING S TO SW 5 TO 15 KT
LATE. SEAS 2 TO 3 FT.

GEORGES BANK...INCLUDING THE WATERS EAST OF CAPE COD AND WEST OF
68W-GEORGES BANK...EAST OF 68W TO THE HAGUE LINE-

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE
AFTERNOON. SEAS 2 TO 3 FT.
.TONIGHT...S TO SW WINDS 10 TO 15 KT. SEAS 3 TO 4 FT.
.TUE...S TO SW WINDS 10 TO 20 KT...BECOMING W TO SW IN THE
AFTERNOON. SEAS 3 TO 5 FT. TSTMS AND AREAS OF FOG WITH VSBY 1 NM
OR LESS.
.TUE NIGHT...W TO SW WINDS 10 TO 20 KT...DIMINISHING TO 5 TO
15 KT AFTER MIDNIGHT. SEAS 3 TO 5 FT. TSTMS.
.WED...W TO NW WINDS 5 TO 15 KT...BECOMING N TO NW LATE. SEAS
3 TO 5 FT.
.THU...W TO NW WINDS LESS THAN 10 KT...BECOMING W TO SW LATE.
SEAS 2 TO 4 FT.

.FRI...SW WINDS LESS THAN 10 KT...BECOMING E 10 TO 20 KT LATE.
SEAS 2 TO 3 FT...BUILDING TO 3 TO 5 FT LATE.

SOUTH OF NEW ENGLAND...FROM THE GREAT SOUTH CHANNEL TO MONTAUK,
NY INCLUDING THE WATERS SOUTH OF MARTHA'S VINEYARD AND NANTUCKET
ISLAND...OUT TO 1000 FM-
SOUTH OF LONG ISLAND...FROM MONTAUK, NY TO SANDY HOOK, NJ...OUT
TO 1000 FM-

.TODAY...W TO SW WINDS LESS THAN 10 KT...BECOMING S TO SW IN THE
MORNING...THEN...INCREASING TO 5 TO 15 KT IN THE AFTERNOON. SEAS
2 TO 3 FT.

.TONIGHT...S TO SW WINDS 5 TO 15 KT. SEAS 2 TO 3 FT.

.TUE...W TO SW WINDS 5 TO 15 KT...BECOMING S IN THE AFTERNOON.
SEAS 2 TO 4 FT. TSTMS AND RAIN.

.TUE NIGHT...S TO SW WINDS 5 TO 15 KT...BECOMING W TO NW AFTER
MIDNIGHT. SEAS 2 TO 3 FT.

.WED...N TO NW WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.

.THU...NE WINDS LESS THAN 10 KT...BECOMING S TO SE LATE. SEAS
2 TO 4 FT.

.FRI...E TO NE WINDS LESS THAN 10 KT...INCREASING TO 10 TO 20 KT
LATE. SEAS 2 TO 3 FT...BUILDING TO 3 TO 5 FT LATE.

Note: Link to current VOBRA for the Atlantic offshore waters (OFFNT1) is available at <http://weather.noaa.gov/pub/data/raw/fz/fznt21.kwbc.off.nt1.txt>

Appendix E. Example output of script which utilizes zone combining in the Pacific offshore waters (OFFPZ5) forecast to produce the new VOBRA.

FZPN35 KWBC 120730
OFFN35

MARINE WEATHER HF VOICE BROADCAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
330 AM PDT MON AUG 12 2013

MARINE WEATHER HF VOICE BROADCAST FOR THE CALIFORNIA WATERS-
INNER WATERS FROM 60 NM TO 150 NM OFFSHORE.
OUTER WATERS FROM 150 NM TO 250 NM OFFSHORE.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SYNOPSIS FOR WASHINGTON AND OREGON WATERS

.SYNOPSIS...HIGH PRES ACROSS THE WATERS WILL GRADUALLY WEAKEN
TODAY INTO TONIGHT. LOW PRES AND A COLD FRONT WILL APPROACH THE
REGION TUE AND TUE NIGHT. THE LOW WILL PASS JUST NW OF THE
WATERS WED AND THU...AS THE COLD FRONT DRIFTS E ACROSS THE AREA
AND DISSIPATES. A WEAKENING LOW WILL MOVE NE ACROSS THE NRN
WATERS FRI.

INNER WATERS FROM CAPE FLATTERY TO CAPE SHOALWATER-
INNER WATERS FROM CAPE SHOALWATER TO CAPE LOOKOUT-
OUTER WATERS FROM CAPE FLATTERY TO CAPE SHOALWATER-
OUTER WATERS FROM CAPE SHOALWATER TO CAPE LOOKOUT-

.TODAY...W TO NW WINDS LESS THAN 5 KT...BECOMING LESS THAN 10 KT
IN THE MORNING...THEN...BECOMING S IN THE AFTERNOON. SEAS 3 TO
4 FT.

.TONIGHT...S WINDS 5 TO 15 KT...BECOMING S TO SE 10 TO 20 KT

AFTER MIDNIGHT. SEAS 3 TO 5 FT.
.TUE...S TO SE WINDS 10 TO 20 KT. SEAS 4 TO 7 FT. CHANCE OF RAIN.
.TUE NIGHT...S TO SE WINDS 10 TO 20 KT. SEAS 4 TO 7 FT. CHANCE OF
RAIN. CHANCE OF TSTMS AFTER MIDNIGHT.
.WED...S TO SW WINDS 10 TO 20 KT...DIMINISHING TO 5 TO 15 KT
LATE. SEAS 3 TO 6 FT.
.THU...S TO SE WINDS LESS THAN 10 KT...INCREASING TO 10 TO 20 KT
LATE. SEAS 3 TO 5 FT.
.FRI...S TO SW WINDS 5 TO 15 KT. SEAS 3 TO 6 FT.

INNER WATERS FROM CAPE LOOKOUT TO FLORENCE OR-
INNER WATERS FROM FLORENCE OR TO POINT ST. GEORGE-
OUTER WATERS FROM CAPE LOOKOUT TO FLORENCE OR-
OUTER WATERS FROM FLORENCE OR TO POINT ST. GEORGE-

.TODAY...N TO NW WINDS 5 TO 15 KT...BECOMING S. SEAS 3 TO 4 FT.
.TONIGHT...S WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.
.TUE...S WINDS 10 TO 20 KT. SEAS 3 TO 6 FT.
.TUE NIGHT...S WINDS 10 TO 20 KT...BECOMING S TO SW 5 TO 15 KT
AFTER MIDNIGHT. SEAS 3 TO 6 FT.
.WED...S WINDS 5 TO 15 KT...BECOMING S TO SW LATE. SEAS 3 TO
5 FT.
.THU...S TO SE WINDS LESS THAN 10 KT...BECOMING S TO SW LATE.
SEAS 3 TO 5 FT.
.FRI...S TO SW WINDS 5 TO 15 KT...BECOMING W TO SW LATE. SEAS
3 TO 6 FT.

Note: Link to current VOBRA for the Pacific offshore waters (OFFPZ5) is available at <http://weather.noaa.gov/pub/data/raw/fz/fzpn25.kwbc.off.pz5.txt>

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